



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,693	06/16/2005	Michael Haacke	DE 020331	6552

24737 7590 07/10/2007
PHILIPS INTELLECTUAL PROPERTY & STANDARDS
P.O. BOX 3001
BRIARCLIFF MANOR, NY 10510

EXAMINER

WILLIAMS, JOSEPH L

ART UNIT	PAPER NUMBER
----------	--------------

2879

MAIL DATE	DELIVERY MODE
-----------	---------------

07/10/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/539,693

Applicant(s)

HAACKE ET AL.

Examiner

Joseph L. Williams

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 4-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 6/07.

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

The amendment and response filed on 17 April 2007 has been entered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, and 4-9 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Haacke et al. (US 6,815,889).

Regarding claim 1, Haacke ('889) teaches in figure 1A and the corresponding column and lines numbers, a high-pressure gas discharge lamp (1) with an asymmetrical discharge space (2) and/or an asymmetrical discharge vessel (12), wherein the bottom surface that is lowermost in the operational position of the lamp has raised central first portion which is surrounded by a relatively lowered second portion, whereby the discharge space (2) has a volume which is reduced by a given first factor in comparison with the volume of the discharge space of known mercury-containing discharge lamps, and wherein an obscuration of portions of the luminous discharge arc (6) and/or of portions of the electrodes (3) by light-generating substances not evaporated in the operational state is prevented in that the quantity of the light-generating substances in the discharge space (2) is reduced by a second factor which

Art Unit: 2879

is determined in dependence on the value of the first factor and on the distance, defined by the asymmetry, of the electrodes (3) to a bottom surface (10, 11) that is lowermost in the operational position of the lamp, and wherein the volume of the discharge space is approximately 18 micro-liters (read approximately 20 micro liters).

Alternatively, further regarding claim 1, Haacke ('889) does not disclose the volume of the discharge space being exactly 18 micro liters.

However, it is the opinion of the examiner that the Haacke reference implies 18 micro-liters by the range "approximately 20 micro-liters". The values are so close as to be considered to fall within the same range. The exact amount used is a matter of obvious choice in design.

Hence, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the disclosure of Haacke for the purpose of making a lamp with improved efficiency. The exact volume of the discharge vessel is a matter of obvious choice in design.

Regarding claim 2, Haacke ('889) teaches the discharge space (2) does not contain mercury (see abstract "free from mercury").

Regarding claim 4, Haacke ('889) teaches the quantity of light-generating substances is approximately 200 micro-grams (read "approximately 300 micro-grams", same reasoning as for claim 1 above).

Regarding claim 5, Haacke ('889) teaches the bottom surface comprises a first portion (10), which is raised by approximately 1 mm with respect to a surrounding second portion (11) (read "approximately 0.5 mm", same reasoning as for claim 1 above).

Regarding claim 6, Haacke ('889) teaches the discharge space (2) contains a rare gas.

Regarding claim 7, Haacke ('889) teaches the rare gas is xenon with a xenon cold pressure of between approximately 8 bar and approximately 20 bar.

Regarding claim 8, Haacke ('889) teaches a high-pressure gas discharge lamp as claimed in claim 1.

Regarding claim 9, Haacke ('889) teaches the xenon cold pressure is between approximately 10 bar and approximately 15 bar.

Response to Arguments

2. Applicant's arguments filed 17 April 2007 have been fully considered but they are not persuasive.

Regarding amended claim 1, the Applicant has argued that the Haacke ('889) reference does not teach or suggest the volume of the discharge space is approximately 18 micro liters. The Examiner respectfully disagrees.

The key word, in both claim 1 of the present Application and the Haacke ('889) reference is "approximately". This term implies a range. Both the present Application and the Haacke ('889) reference use this term to describe the volume of the discharge

Art Unit: 2879

space. The present Application provides no guidance as to what is to be include or excluded by the term "approximately". One of ordinary skill in the art would reasonably conclude that the volume could be a little more or less than 18 micro liters.

The same reasoning applies to the Haacke ('889) reference. The reference provides no guidance as to what is to be include or excluded by the term "approximately". One of ordinary skill in the art would reasonably conclude that the volume could be a little more or less than 20 micro liters.

It is the position of the Examiner that the Haacke ('889) reference meets the claim limitation because it implicitly discloses that the volume of the discharge space could be higher or lower than 20 micro liters. The volumes of 18 and 20 are so close as to be reasonable considered to fall within the term "approximately".

Regarding claims 4 and 5, the same reasoning applied to claim 1 above applies.

Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2879

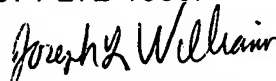
the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Williams whose telephone number is (571) 272-2465. The examiner can normally be reached on M-F (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Joseph L. Williams
Primary Examiner
Art Unit 2879